

Algorithms
and Computation
in Mathematics

Volume 10

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Richard Pollack
Marie-Françoise Roy

Algorithms in Real Algebraic Geometry



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Algorithms In Real Algebraic Geometry

Sasha Hu



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Mathematical Software - ICMS 2006 Andres Iglesias,Nobuki Takayama,2006-08-24 This book constitutes the refereed proceedings of the Second International Congress on Mathematical Software ICMS 2006 The book presents 45 revised full papers carefully reviewed and selected for presentation The papers are organized in topical sections on new developments in computer algebra packages interfacing computer algebra in mathematical visualization software for algebraic geometry and related topics number theoretical software methods in computational number theory free software for computer algebra and general issues

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The Impact of Applications on Mathematics Masato Wakayama,Robert S. Anderssen,Jin Cheng,Yasuhide Fukumoto,Robert McKibbin,Konrad Polthier,Tsuyoshi Takagi,Kim-Chuan Toh,2014-07-18 This book is a collection of papers presented at the Forum The Impact of Applications on Mathematics in October 2013 It describes an appropriate framework in which to highlight how real world problems over the centuries and today have influenced and are influencing the development of mathematics and thereby how mathematics is reshaped in order to advance mathematics and its application

The contents of this book address productive and successful interaction between industry and mathematicians as well as the cross fertilization and collaboration that result when mathematics is involved with the advancement of science and technology

Logic, Mathematics, Philosophy, Vintage Enthusiasms David DeVidi, Michael Hallett, Peter Clark, 2011-03-23 The volume includes twenty five research papers presented as gifts to John L Bell to celebrate his 60th birthday by colleagues former students friends and admirers Like Bell s own work the contributions cross boundaries into several inter related fields The contributions are new work by highly respected figures several of whom are among the key figures in their fields Some examples in foundations of maths and logic William Lawvere Peter Aczel Graham Priest Giovanni Sambin analytical philosophy Michael Dummett William Demopoulos philosophy of science Michael Redhead Frank Arntzenius philosophy of mathematics Michael Hallett John Mayberry Daniel Isaacson and decision theory and foundations of economics Ken Bimore Most articles are contributions to current philosophical debates but contributions also include some new mathematical results important historical surveys and a translation by Wilfrid Hodges of a key work of arabic logic

Computer Algebra in Scientific Computing Vladimir P. Gerdt, Wolfram Koepf, Werner M. Seiler, Evgenii V. Vorozhtsov, 2015-09-10 This book constitutes the proceedings of the 17th International Workshop on Computer Algebra in Scientific Computing CASC 2015 held in Aachen Germany in September 2015 The 35 full papers presented in this volume were carefully reviewed and selected from 42 submissions They deal with the ongoing progress both in theoretical computer algebra and its expanding applications New and closer interactions are fostered by combining the area of computer algebra methods and systems and the application of the tools of computer algebra for the solution of problems in scientific computing

Object Representation in Computer Vision Martial Hebert, Jean Ponce, Terry Boult, Ari Gross, 1995-10-18 This book documents the scientific outcome of the International NSF ARPA Workshop on Object Representation in Computer Vision held in New York City in December 1994 with invited participants chosen among the recognized experts in the field The volume presents the complete set of papers in revised full length versions In addition the first paper is a report on the workshop in which the panel discussions as well as the conclusions and recommendations reached by the workshop participants are summarized Altogether the volume provides an excellent in depth view of the state of the art in this active area of research and applications

Handbook of Geometric Constraint Systems Principles Meera Sitharam, Audrey St. John, Jessica Sidman, 2018-07-20 The Handbook of Geometric Constraint Systems Principles is an entry point to the currently used principal mathematical and computational tools and techniques of the geometric constraint system GCS It functions as a single source containing the core principles and results accessible to both beginners and experts The handbook provides a guide for students learning basic concepts as well as experts looking to pinpoint specific results or approaches in the broad landscape As such the editors created this handbook to serve as a useful tool for navigating the varied concepts approaches and results found in GCS research

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Quantifier Elimination and Cylindrical Algebraic Decomposition Bob F. Caviness, 1998-04-16 George Collins discovery of Cylindrical Algebraic Decomposition CAD as a method for Quantifier Elimination QE for the elementary theory of real closed fields brought a major breakthrough in automating mathematics with recent important applications in high tech areas e.g robot motion also stimulating fundamental research in computer algebra over the past three decades This volume is a state of the art collection of important papers on CAD and QE and on the related area of algorithmic aspects of real geometry In addition to original contributions by S Basu et al L Gonzlez Vega et al G Hagel H Hong and J R Sendra J R Johnson S McCallum D Richardson and V Weispfenning and a survey by G E Collins outlining the twenty year progress in CAD based QE it brings together seminal publications from the area A Tarski A Decision Method for Elementary Algebra and Geometry G E Collins Quantifier Elimination for Real Closed Fields by Cylindrical Algebraic Decomposition M J Fischer and M O Rabin

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